

Dugway Proving Ground Restoration Advisory Board Meeting

November 14, 2007 Eagle's Nest – Building 1005, Tooele Army Depot Tooele, Utah

UPDATE RCRA Facility Investigation

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Presentation

- Status of RFI for SWMUs
- Work Completed Since August 2007
- Current Field Work
- Future Work Activity
- Briefing: Sub-slab Soil Vapor Sampling at Ditto Technical Laundry Facility (SWMU-177)



RCRA Corrective Action Process

- Solid Waste Management Units (SWMU) Definition
 - "Any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released."
- Four Main Steps
 - RCRA Facility Assessment (RFA)
 - RCRA Facility Investigation (RFI)—Phase I
 - RCRA Facility Investigation (RFI)
 — Phase II
 - Corrective Measures Study (CMS)



Report Process

- RFI reports undergo 3 iterations
 - DRAFT: Internal Army review includes DPG and Corps of Engineers; comments submitted and resolved
 - DRAFT-FINAL: Submitted to UDEQ for review;
 comments submitted and resolved
 - FINAL: Incorporates all UDEQ comments; legally-binding document incorporated into DPG's RCRA Part B Permit
- Same process for other documents (e.g., Work Plans; Work Plan Variances)



Status of RFI SWMUs

Priority 1 (<u>32 SWMUs</u>)

- 21 SWMU RFI Final Reports DSHW Approved
 - SWMUs 3, 16, 17, 18, 21, 44, 52, 54, 65, 79, 98, 172, 194 (A,B,C), 199, 200, 207, 212, 213, and 215
- 2 SWMUs in RFI Draft Final Review by UDEQ
 - **SWMUs 41 and 173**
- 4 SWMUs in RFI Draft Stage
 - **SWMUs 4, 60, 192, 32**
- 5 SWMUs with Upcoming Removal Actions or Further Investigation Needed



- SWMUs 15, 35, 177, 180, and 208

Status of RFI SWMUs (cont.)

Priority II (39 SWMUs)

- 33 SWMU RFI Final Reports Approved by DSHW
 - SWMUs 6, 8, 10, 19, 23, 25, 56, 56B, 75, 77, 97, 113, 113, 115, 116, 118, 133, 150, 154, 171, 179, 183, 185, 188, 189, 193, 197, 201, 205, 206, 211, 214, and 216
- 1 SWMU RFI Final Reports in Preparation
 - **SWMUs 61**
- 2 SWMUs with RFI Report in Draft Stage
 - SWMUs 209, 210
- 3 SWMUs with Upcoming Removal Actions or Further Investigation Needed
 - SWMUs 11, 31, 114



Work Completed Since August 2007

Reports Submitted

- Final English Village GMA (approved)
- Final RFI Reports: SWMUs 133 and 201 (approved)
- Draft-Final RFI Report for SWMU-173
- Draft RFI Report for SWMU 11
- RTCs on two RFI Reports



Work Completed Since August 2007 (cont.)

Work Plans (WP) or Work Plan Variances (WPVs) Submitted

- Final WPV for SWMU-208 (buried drum removal)
- Final WP for SWMU-177 (sub-slab soil vapor vapor sampling at Tech. Laundry)
- Final WPV for SWMU-31 (removal action)



Work Completed Since August 2007 (cont.)

Field Work (Fall, 2007)

- Biological Sites WP completed (sampling at at SWMUs 4, 32, 114, 209, 210)
- Drum removal and sampling at SWMU-208208
- Sub-slab soil vapor sampling at Technical Laundry, SWMU-177



Future Field Work

RFI Field Work - Fall/Winter 2007

- •SWMU-32 (Resample some soils)
- •SWMU-11 (Install 2 monitoring wells)
- SWMU-177 (More Sub-slab soil vapor sampling)
- SWMU-15 (soil sampling Old River Bed Tunnels)

Removal Actions - Fall/Winter 2007

- •SWMU-31 (small disposal pit near Wig Mountain)
- •SWMU-35 (Former Baker Lab water treatment plant)
- •SWMU-208 (Final disposal of buried drums)

Future Report Activity

- Final RFI Reports for SWMUs 61, 41, 173
- Draft-Final RFI Reports for SWMU-11
- Draft RFI Reports for SWMUs 4, 31, 32, 60, 114, 192, 208, 209, 210







What is Sub-Slab Soil Vapor Sampling?

 Sampling of contaminant vapors that collect in the pore spaces of soil immediately below building foundations

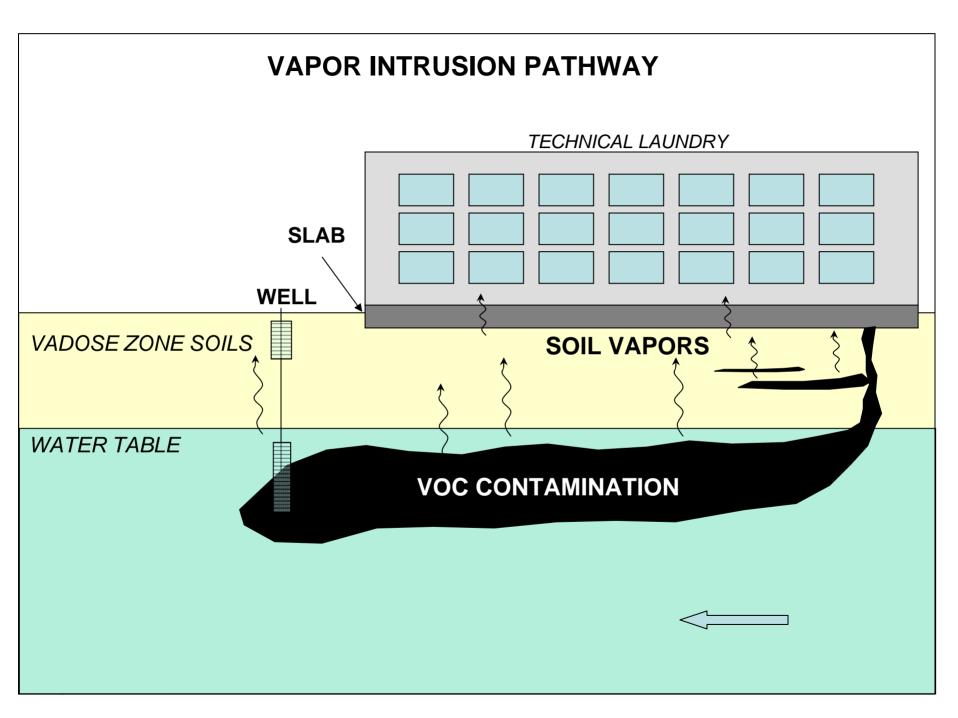
• It is one of the first steps in evaluating the "Vapor Intrusion Exposure Pathway

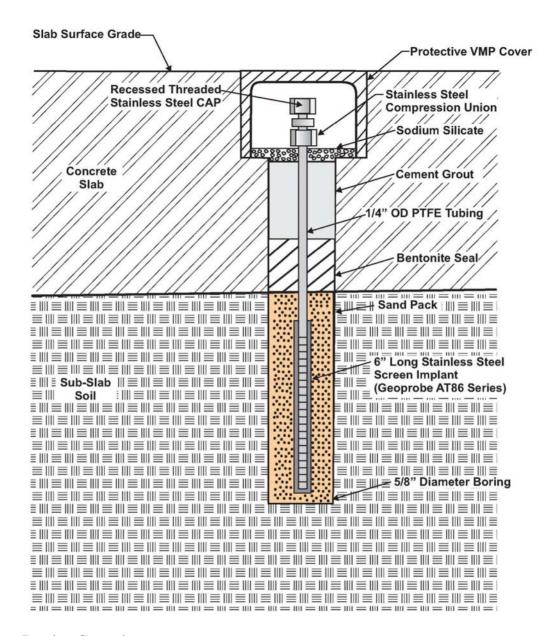


Vapor Intrusion Exposure Pathway

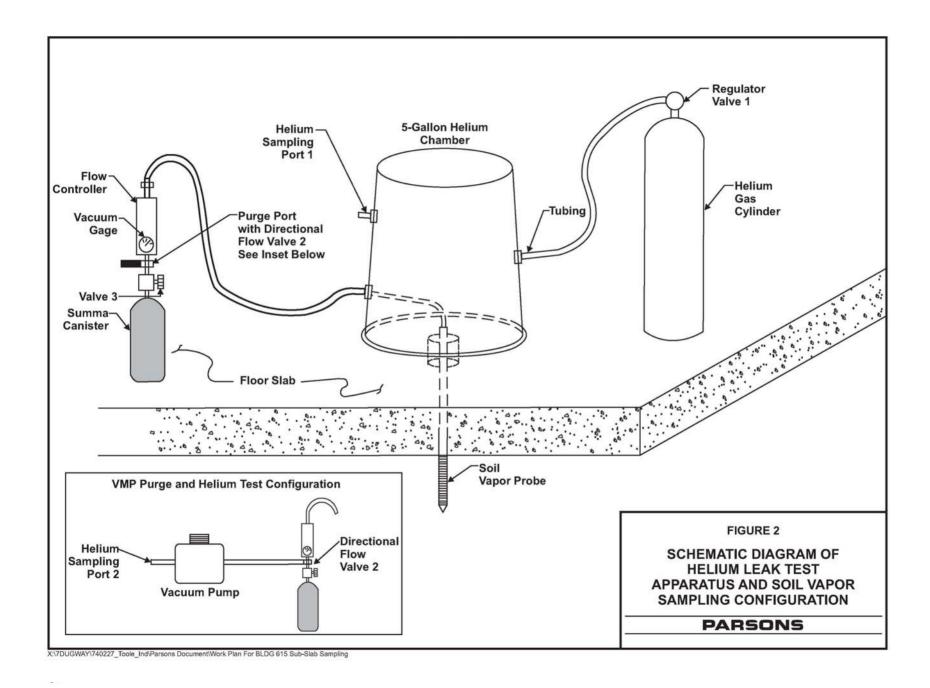
- The physical pathway or route by which contaminant vapors migrate from a contaminant source to the inside of an enclosure (building) and are then breathed by a receptor (person).
- Associated with the evaluation of risk to human health

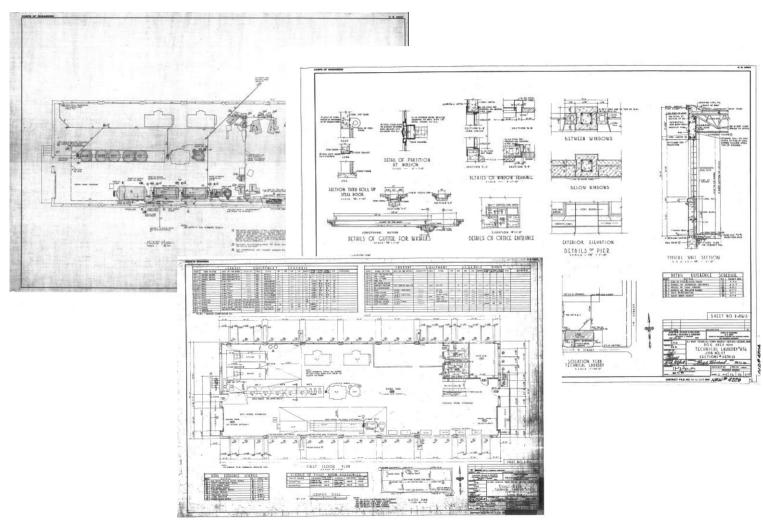
• If there is no complete pathway, then there is no risk.









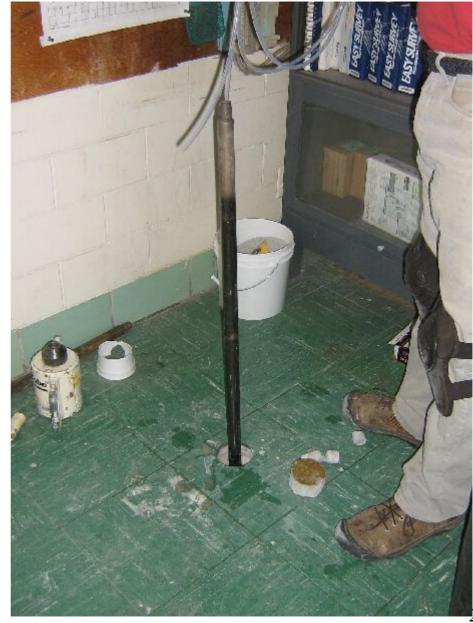














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